	Application No.	Applicant(s)
Notice of Allowability	10/657,281	SUCHARD ET AL.
	Examiner	Art Unit
	DANIEL G. MARIAM	2621
	DANIEL G. WARIAW	2021
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communicating the subjection is subjection.	application. If not included on will be mailed in due course. THIS
1. This communication is responsive to <u>a response & a Tem</u>	ninal Disclaimer filed on 11/16/04	
2. The allowed claim(s) is/are <u>1-27</u> .		
3. \boxtimes The drawings filed on <u>08 September 2003</u> are accepted by	the Examiner.	
 4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have Horizontal Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	be been received. be been received in Application No.	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		ly complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give		
6. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	•
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment or in the	e Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	5.	al Patent Application (PTO-152)
3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail [Date
Paper No./Mail Date 11/16/04 4. Examiner's Comment Regarding Requirement for Deposit	•	ment of Reasons for Allowance
of Biological Material	9. Other	
	DANIEL MIRIAM PRIMARY EXAMINE	R

Application/Control Number: 10/657,281 Page 2

Art Unit: 2621

Allowable Subject Matter

1. Claims 1-27 are allowed in view of the Terminal Disclaimer field on November 16, 2004.

- 2. The following is an examiner's statement of reasons for allowance: the instant invention provides a signature authentication/verification method and apparatus that preferably employs self-organized neural networks. The instant claimed invention distinguishes over the closest prior art of Minot, et al by the manner in which the signature is authenticated. That is, upon acquisition of a signature data, the instant invention converts the data into high dimension vectors using a recursive sampling process, and then the instant invention feeds the high dimension vectors to an unsupervised neural network and performs a high order principal component extraction process on the high dimension vectors by cumulative orthonormalization, thereby identifying clusters of high dimension points. Thereafter, the instant invention analyzes the clusters of high dimension points to determine, based on previously stored information, the authenticity of the signature. These features in combination with all the other elements of the claims are not taught or fairly suggested by the closest prior art of Minot, et al.
- 3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to DANIEL G. MARIAM whose telephone number is 571-272-7394. The examiner can normally be reached on M-F (7:00-4:30) FIRST FRIDAY OFF.

Application/Control Number: 10/657,281

Art Unit: 2621

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, BHAVESH M. MEHTA can be reached on 571-272-7453. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Page 3

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PRIMARY EXAMINER

May 12, 2005